

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

15%



**FIG. 1A**



**FIG. 1B**

20%



**FIG. 1C**



**FIG. 1D**

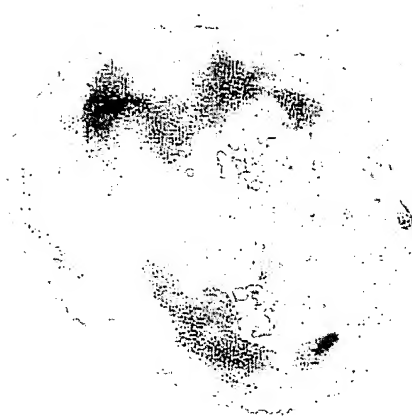


**FIG. 1E**



**25%**

**FIG. 1F**

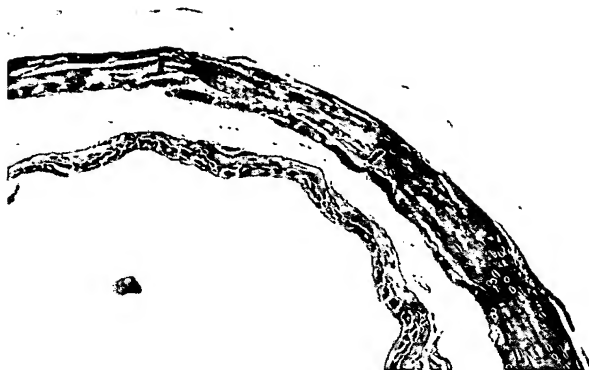


**FIG. 1G**

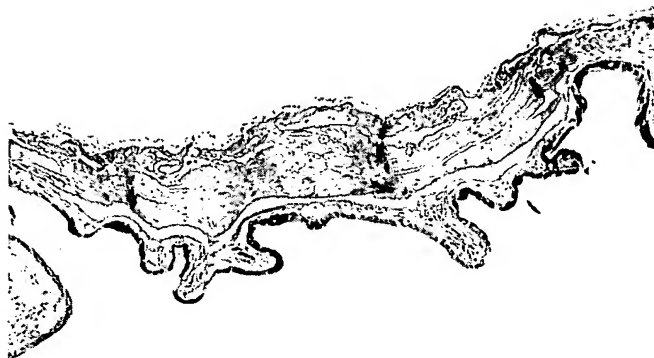


**30%**

**FIG. 1H**



**FIG. 2A**



**FIG. 2B**



**FIG 2C**



40X

**FIG. 3A**



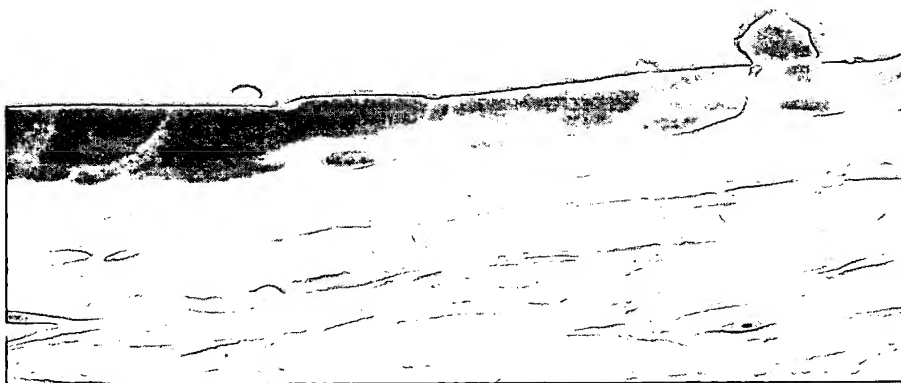
100X

**FIG. 3B**



40X

**FIG. 3C**



100X

**FIG. 3D**



40X

**FIG. 3E**



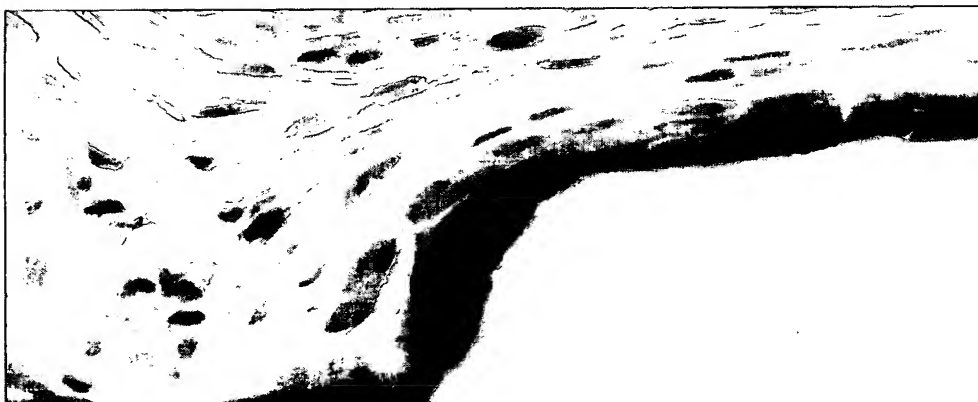
100X

**FIG. 3F**



40x

**FIG. 4A**



100x

**FIG. 4B**





40x

**FIG. 4C**



100x

**FIG. 4D**



40x

**FIG. 4E**



100x

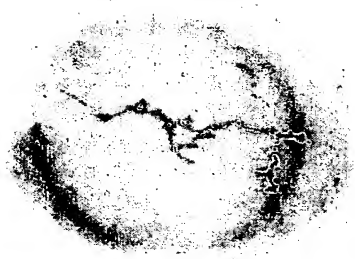
**FIG. 4F**



**FIG. 5A**



**FIG. 5B**



**FIG. 5C**



**FIG. 5D**



**FIG. 6A**



**FIG. 6B**



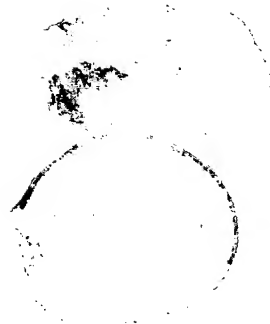
**FIG. 6C**



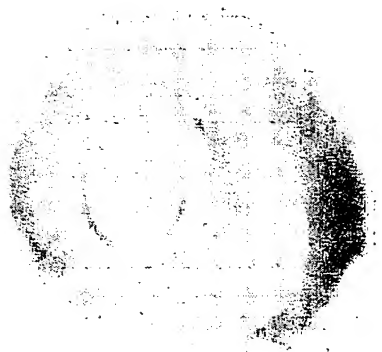
**FIG. 6D**



**FIG. 7A**



**FIG. 7B**



**FIG. 7C**



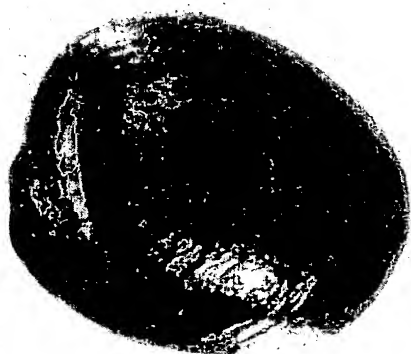
**FIG. 7D**



**FIG. 8A**



**FIG. 8B**



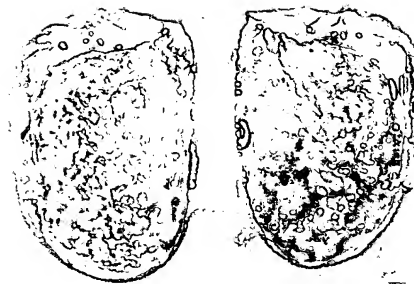
**FIG. 8C**



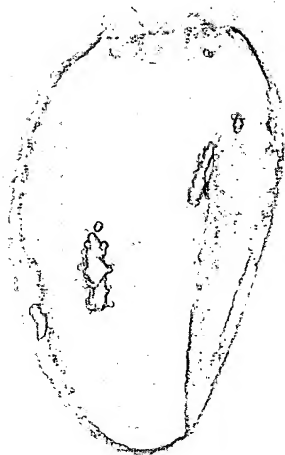
**FIG. 8D**



**FIG. 8E**



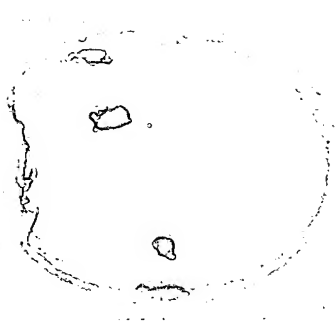
**FIG. 8F**



**FIG. 8G**



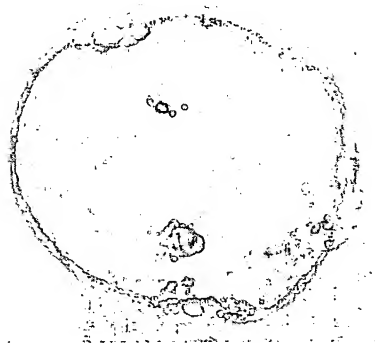
**FIG. 8H**



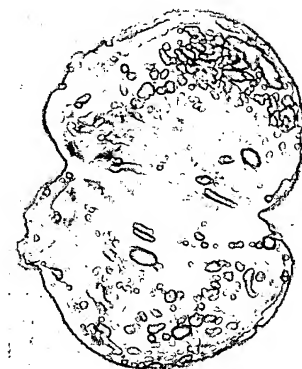
**FIG. 8I**



**FIG. 8J**



**FIG. 8K**



**FIG. 8L**

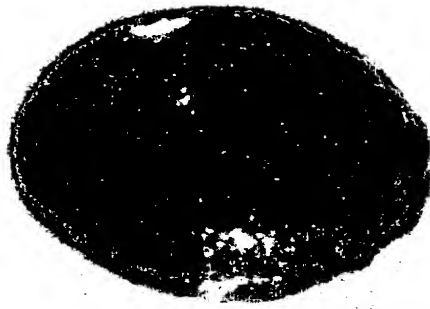


**FIG. 8M**



**FIG. 8N**

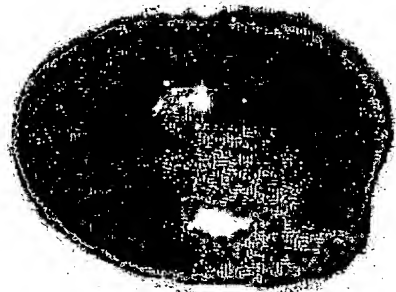




**FIG. 9A**



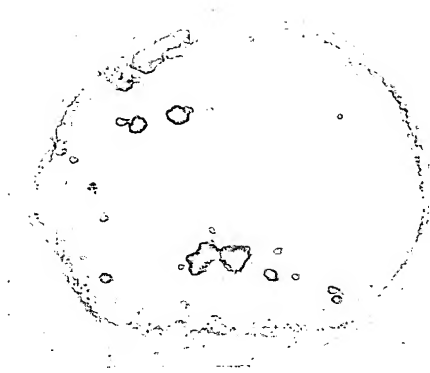
**FIG. 9B**



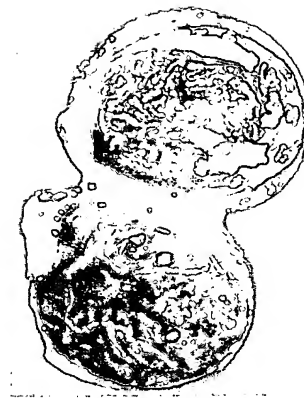
**FIG. 9C**



**FIG. 9D**



**FIG. 9E**



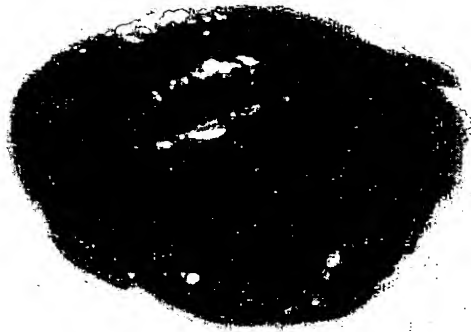
**FIG. 9F**



**FIG. 9G**



**FIG. 9H**



**FIG. 9I**



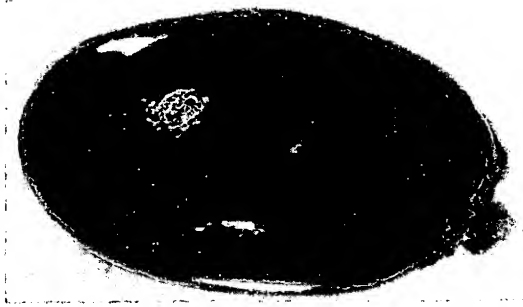
**FIG. 9J**



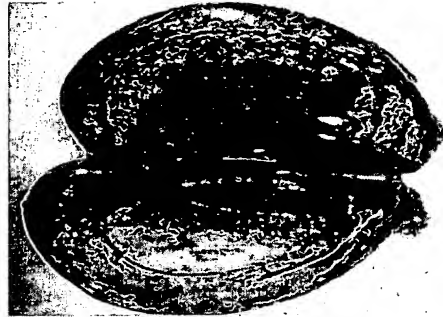
**FIG. 9K**



**FIG. 9L**



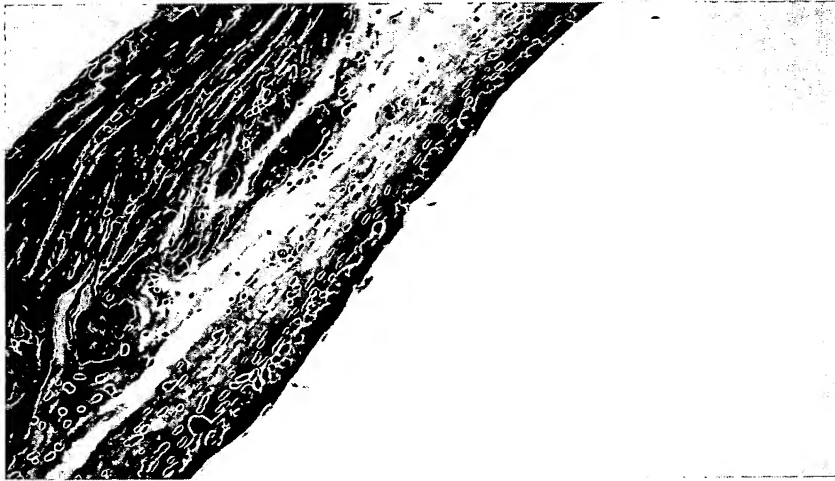
**FIG. 9M**



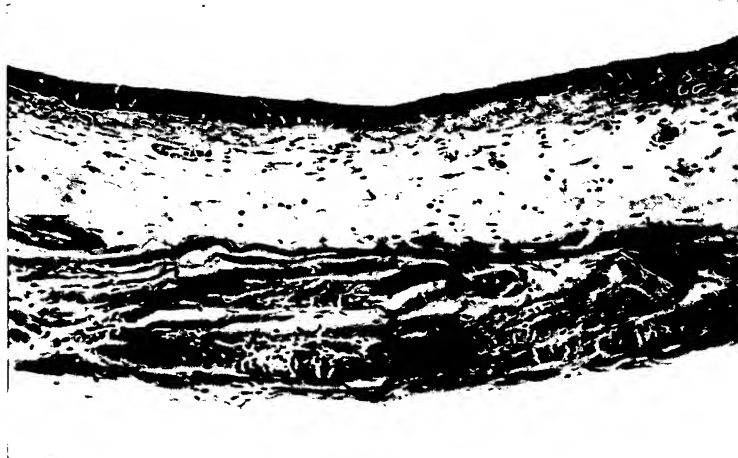
**FIG. 9N**



**FIG. 10A**



**FIG. 10B**



**FIG. 11A**



**FIG. 11B**



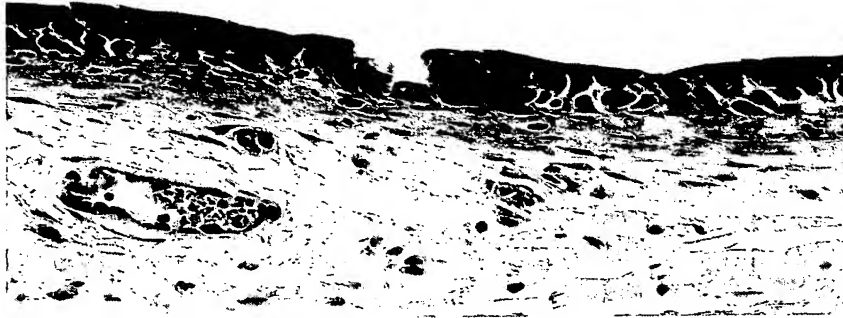
40x

**FIG. 12A**



100x

**FIG. 12B**



40x

**FIG. 12C**



100x

**FIG. 12D**





40x

**FIG. 12E**



100x

**FIG. 12F**



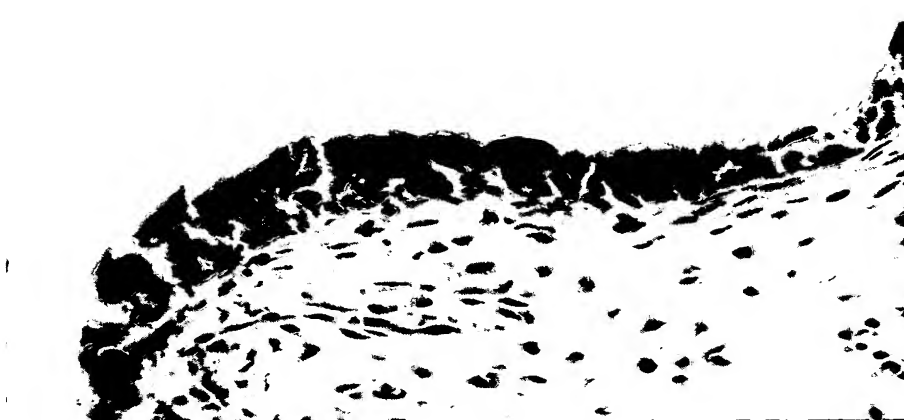
40x

**FIG. 13A**



100x

**FIG. 13B**



40x

**FIG. 13C**



100x

**FIG. 13D**



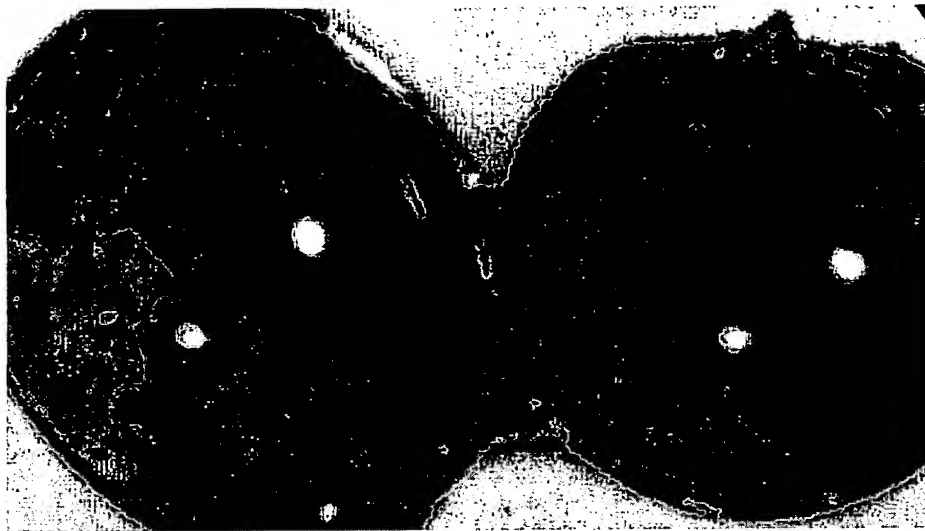
40x

**FIG. 13E**

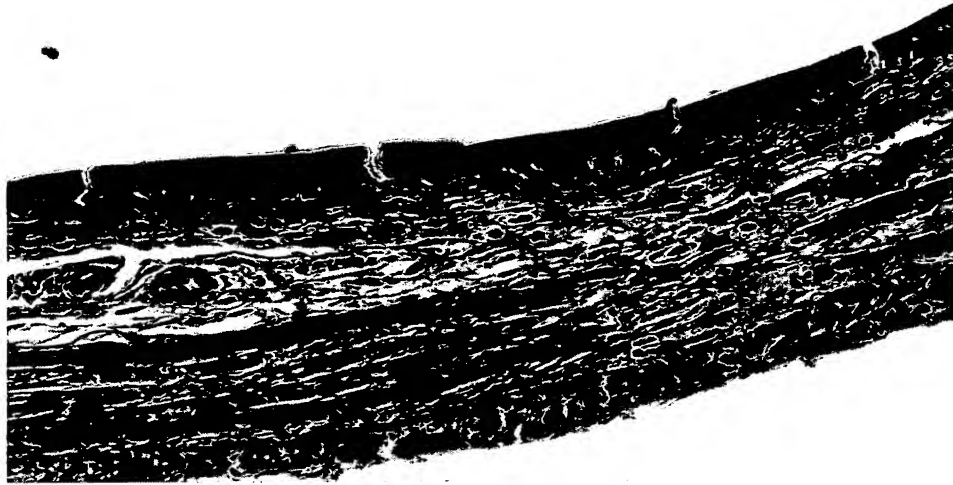


100x

**FIG. 13F**



**FIG. 14A**



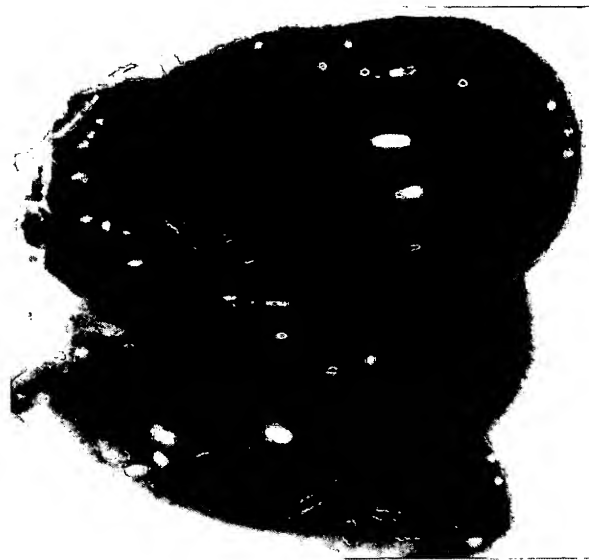
40x

**FIG. 14B**



100x

**FIG. 14C**

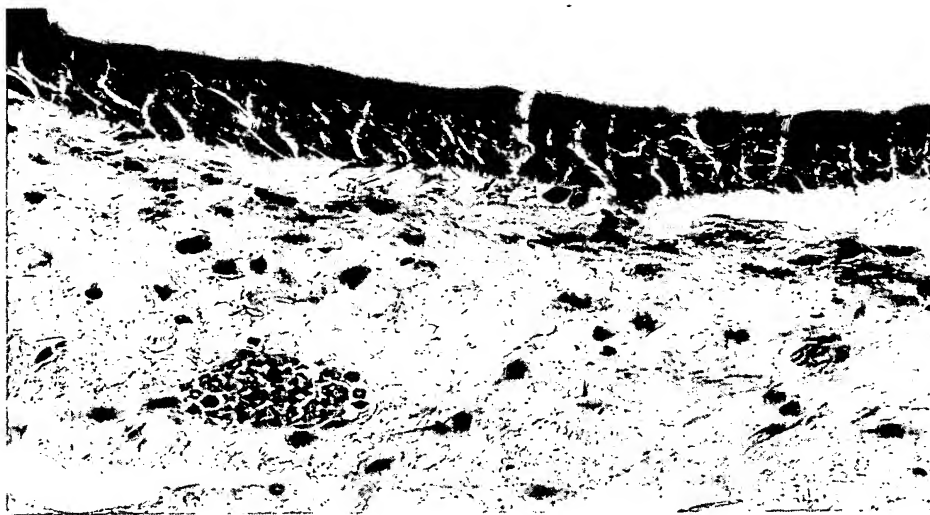


**FIG. 15A**



**40x**

**FIG. 15B**



100x

**FIG. 15C**





**FIG. 16A**



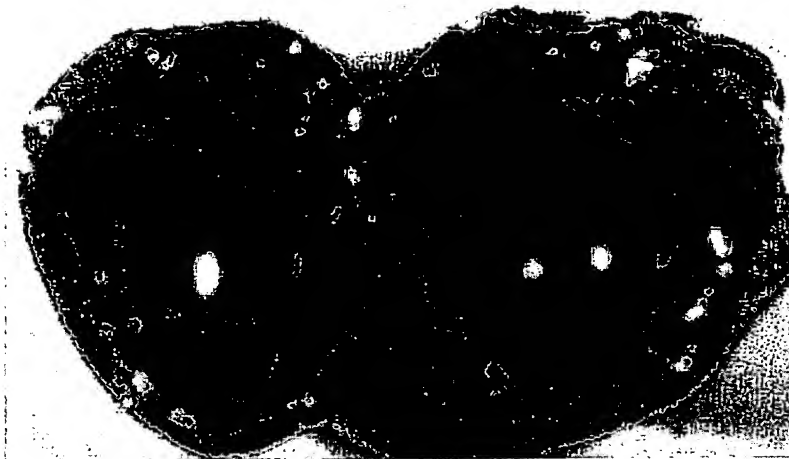
**40x**

**FIG. 16B**

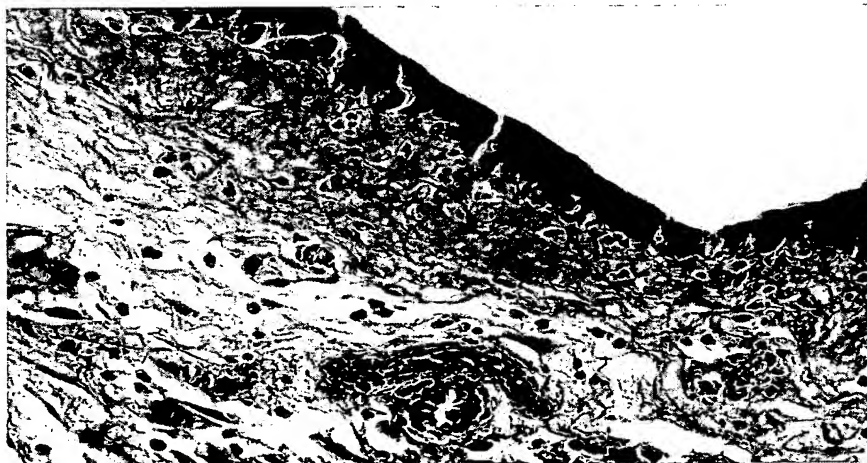


100x

**FIG. 16C**



**FIG. 17A**



40x

**FIG. 17B**



100x

**FIG. 17C**



**FIG. 18A**



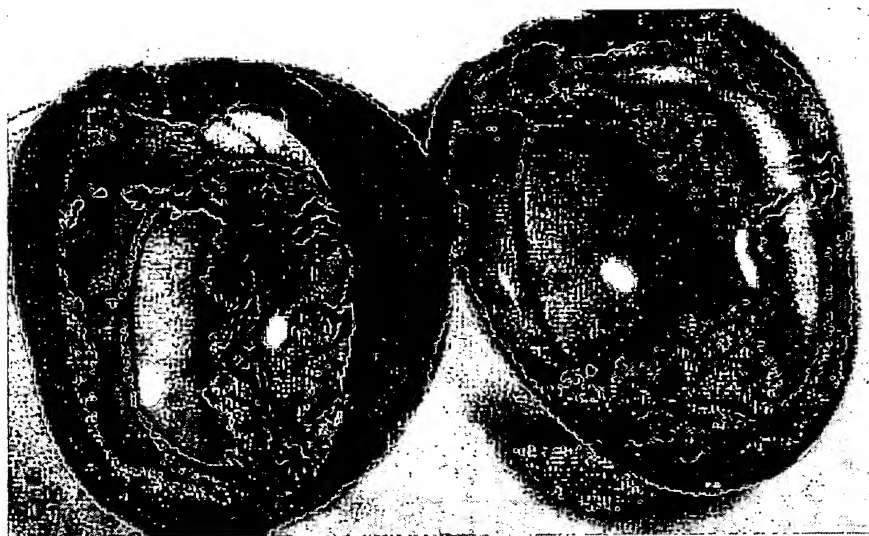
40x

**FIG. 18B**

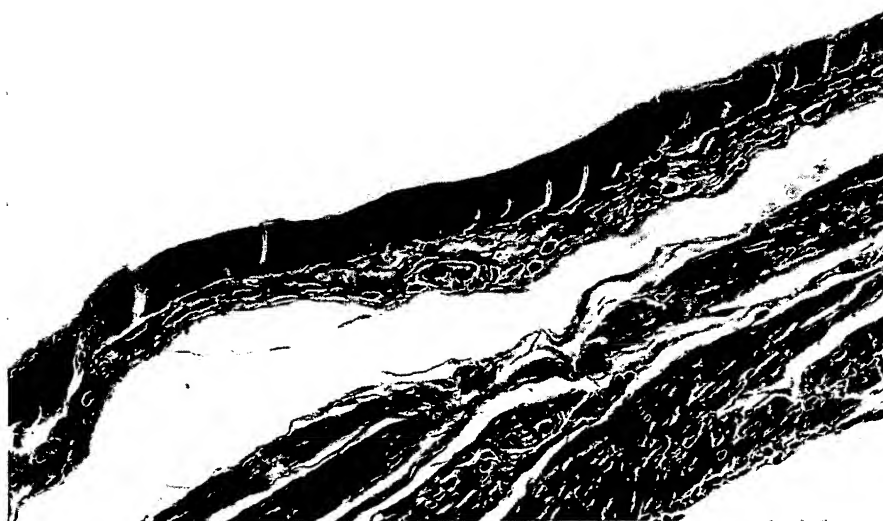


100x

**FIG. 18C**



**FIG. 19A**



40x

**FIG. 19B**



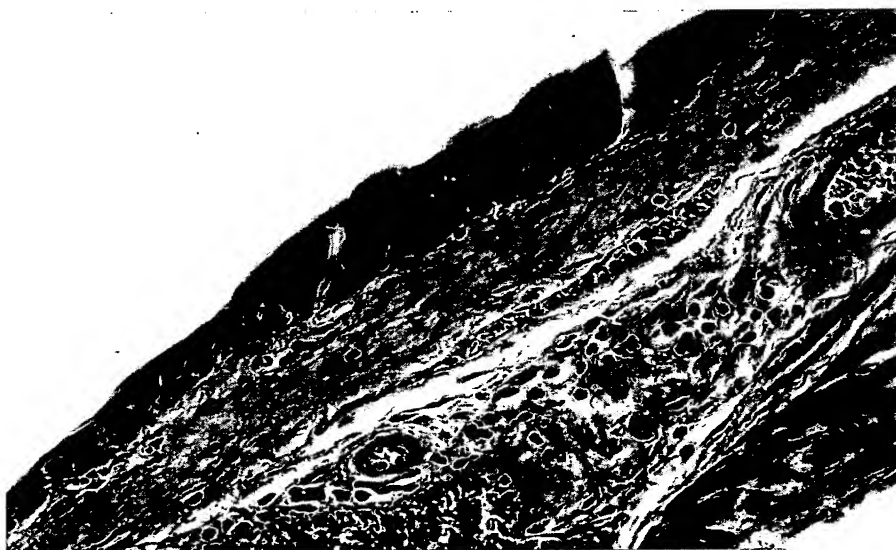
100x

**FIG. 19C**





**FIG. 20A**



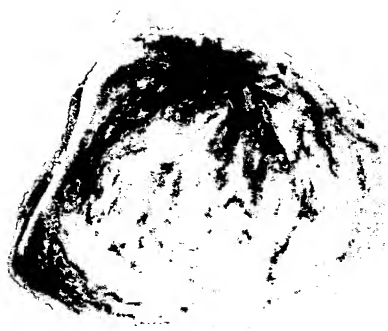
40x

**FIG. 20B**

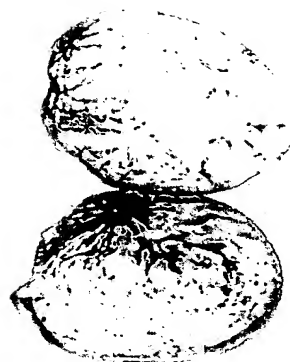


100x

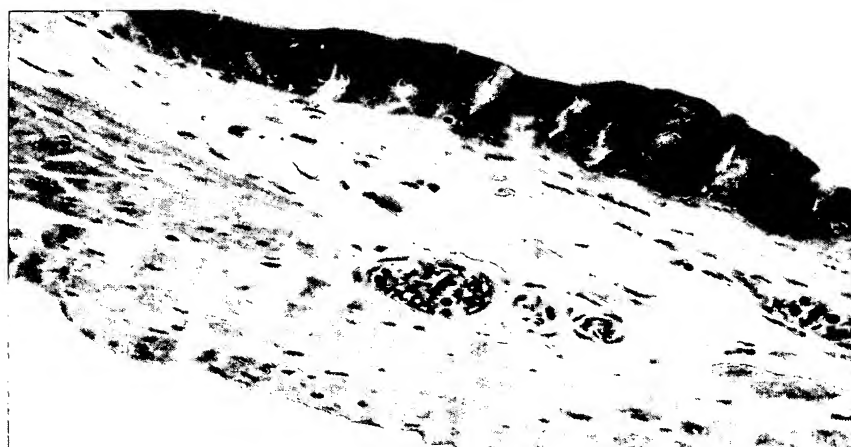
**FIG. 20C**



**FIG. 21A**



**FIG. 21B**



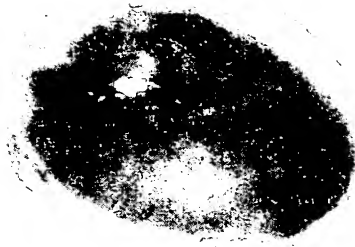
40x

**FIG. 21C**



100x

**FIG. 21D**



**FIG. 22A**



**FIG. 22B**



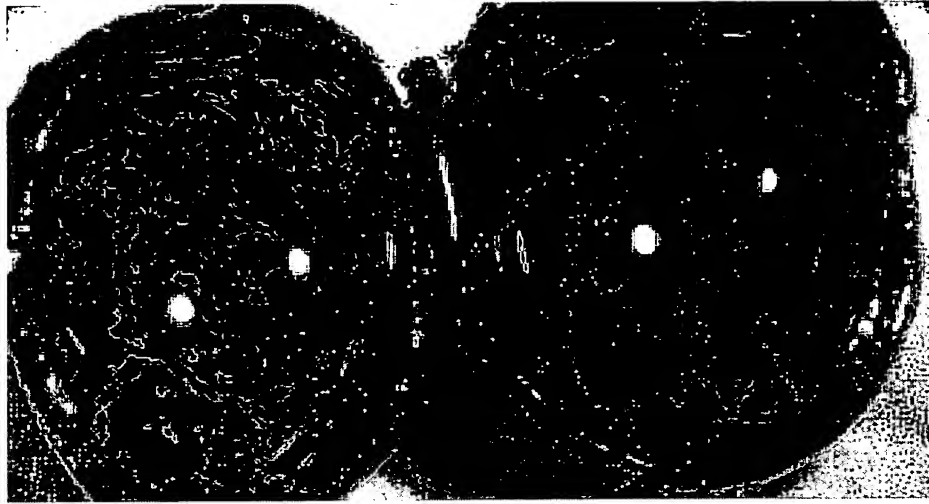
40x

**FIG. 22C**

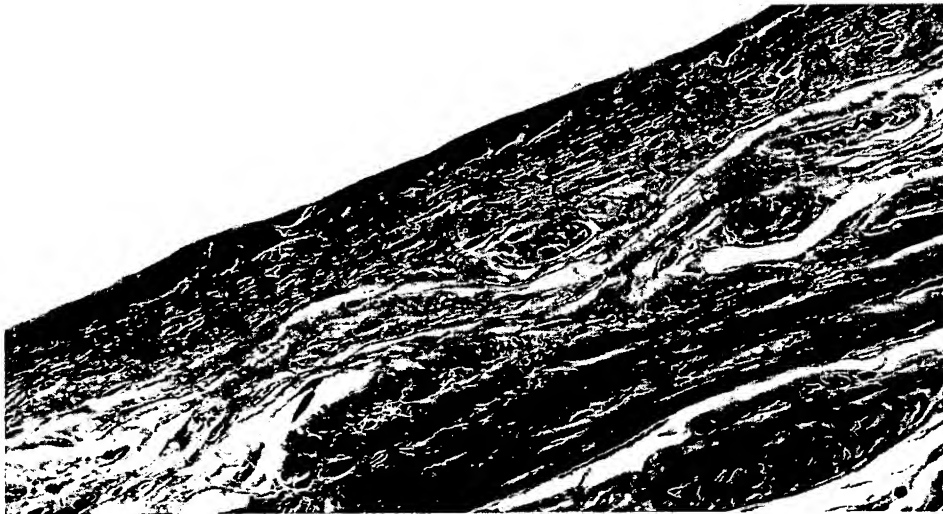


100x

**FIG. 22D**

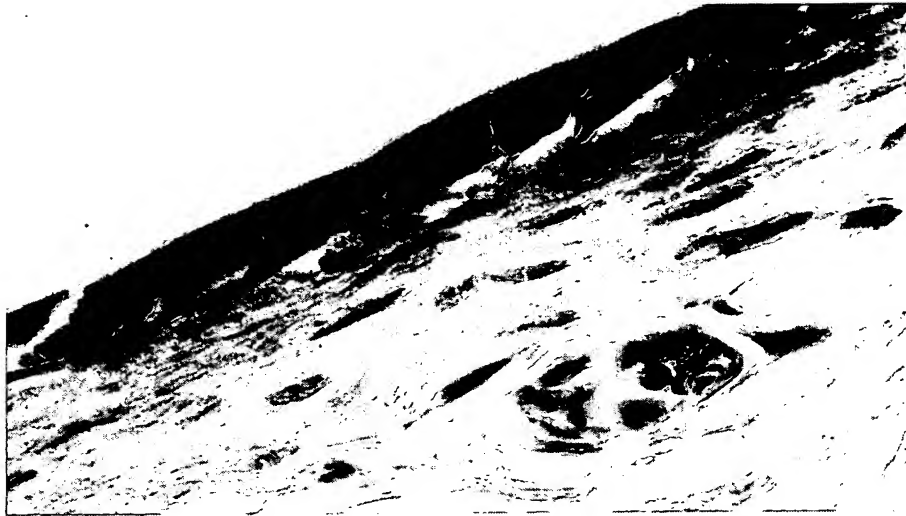


**FIG. 23A**



40x

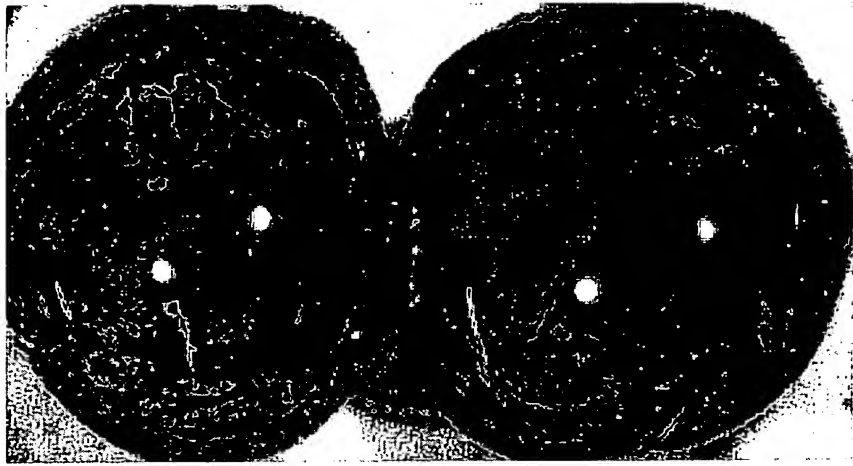
**FIG. 23B**



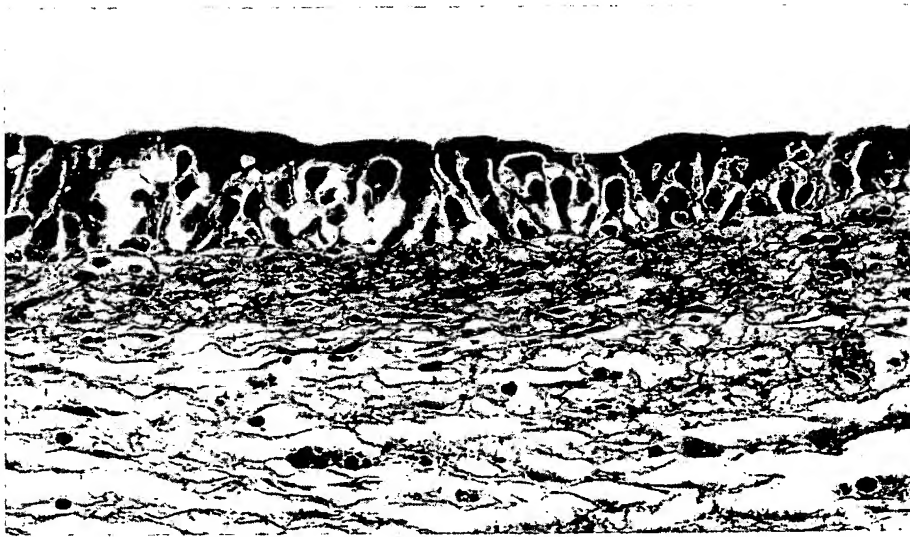
100x

**FIG. 23C**



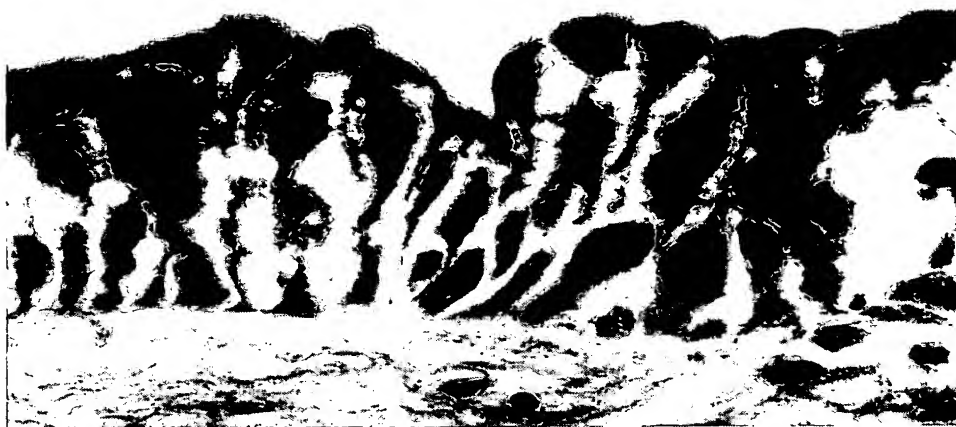


**FIG. 24A**



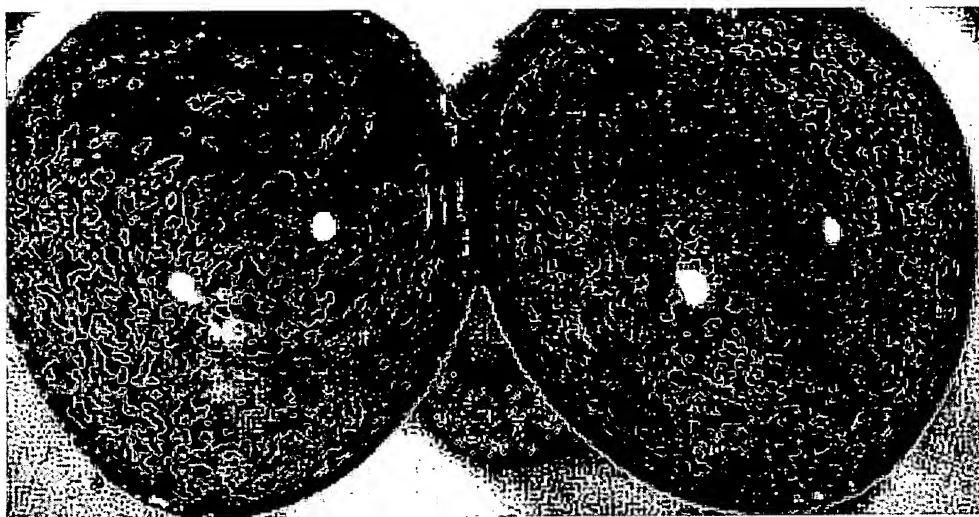
40x

**FIG. 24B**



100x

**FIG. 24C**



**FIG. 25A**



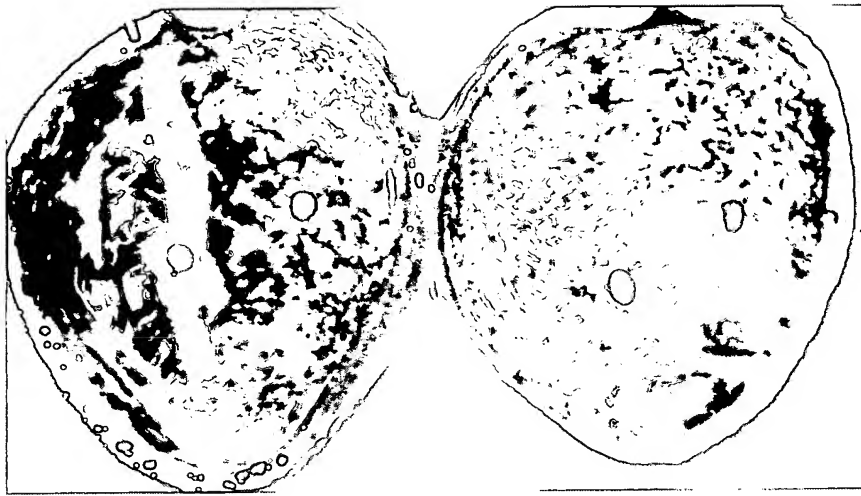
40x

**FIG. 25B**

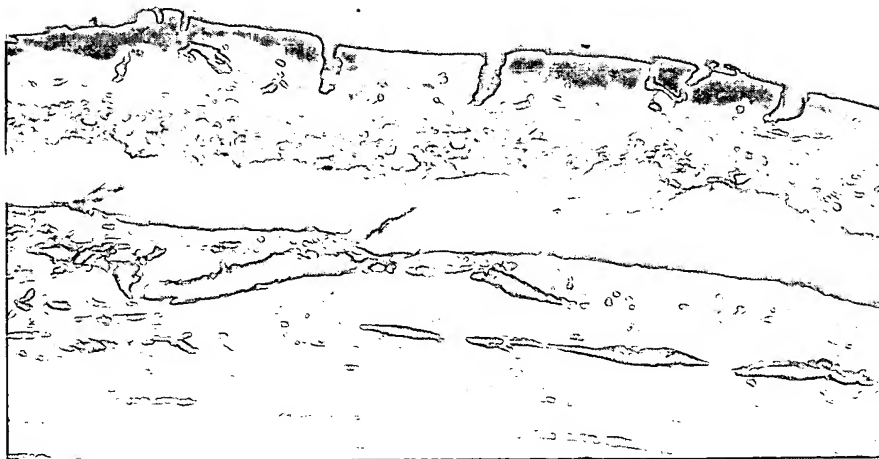


100x

**FIG. 25C**



**FIG. 26A**



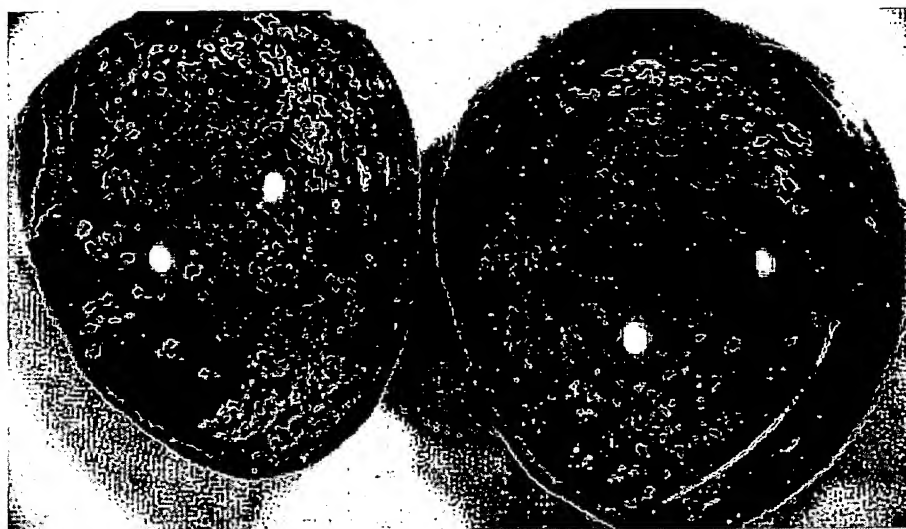
40x

**FIG. 26B**



100x

**FIG. 26C**



**FIG. 27A**



40x

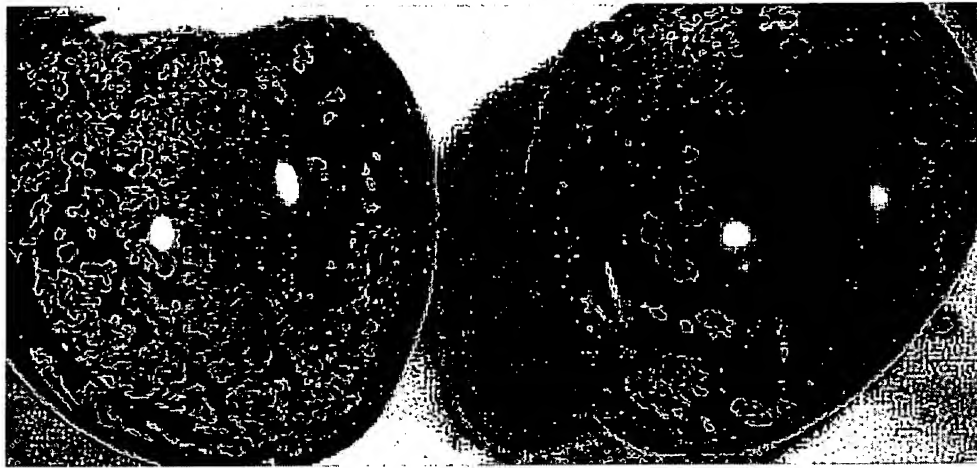
**FIG. 27B**



100x

**FIG. 27C**



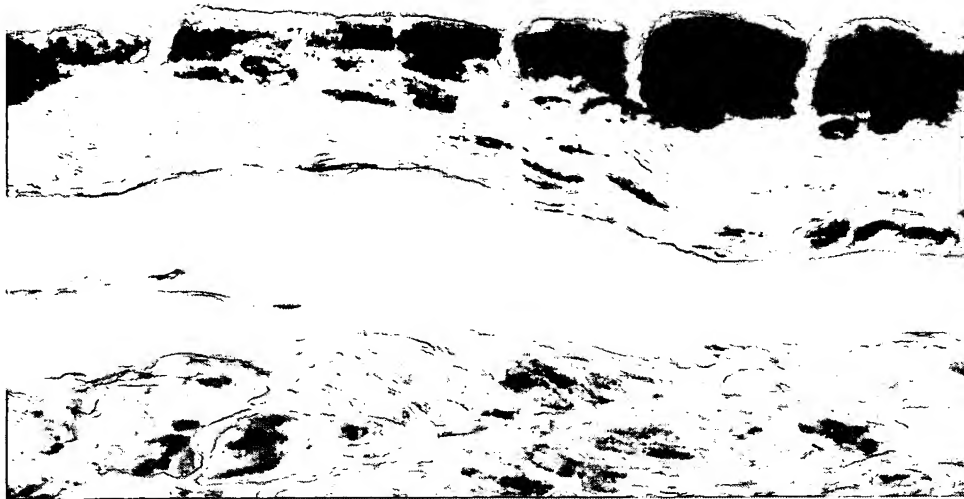


**FIG. 28A**



40x

**FIG. 28B**



100x

**FIG. 28C**

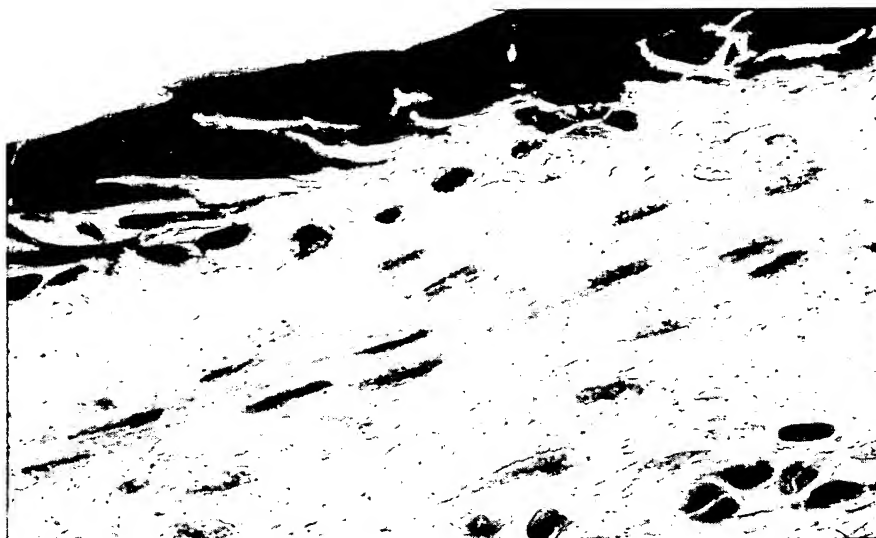


**FIG. 29A**



40x

**FIG. 29B**



100x

**FIG. 29C**



**FIG. 30A**



40x

**FIG. 30B**

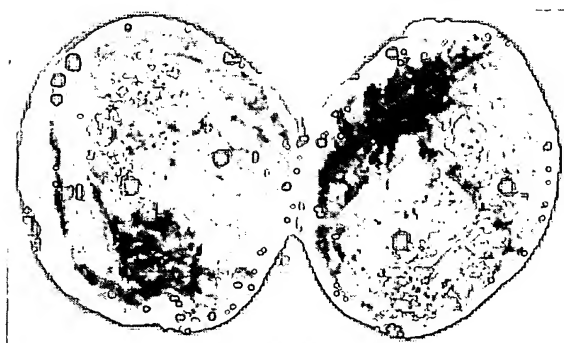


100x

**FIG. 30C**



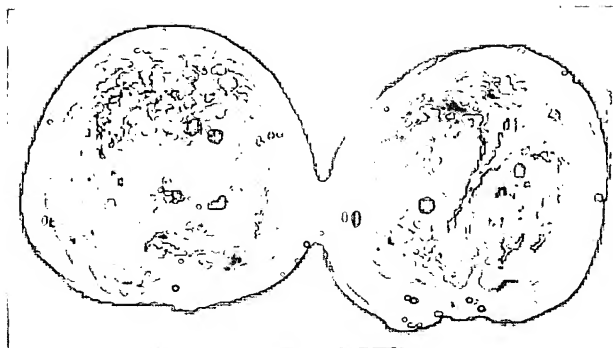
**FIG. 31A**



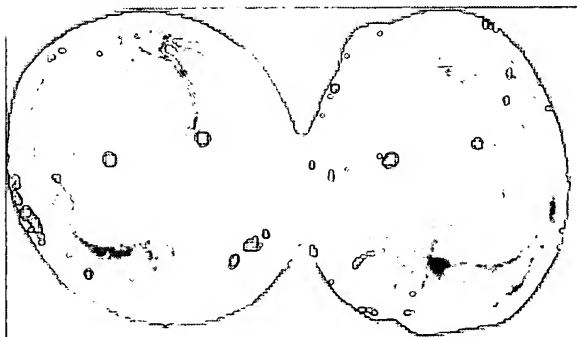
**FIG. 31B**



**FIG. 31C**

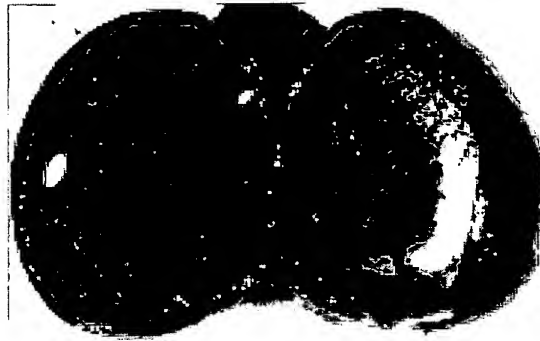


**FIG. 31D**

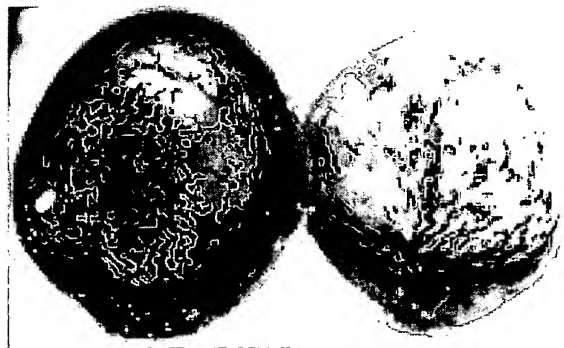


**FIG. 31E**

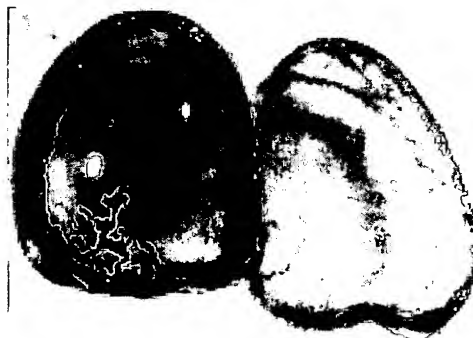




**FIG. 32A**



**FIG. 32B**



**FIG. 32C**